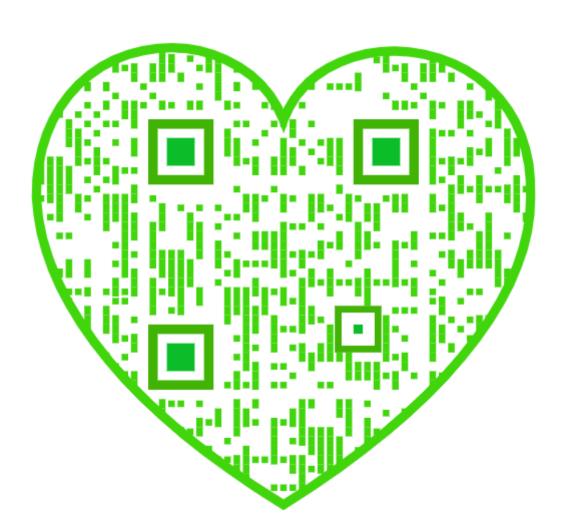


Enrichmentors



Purpose

The purpose of the section is to help you learn how to define problems to become a Successful Artificial Intelligence (AI) Engineer

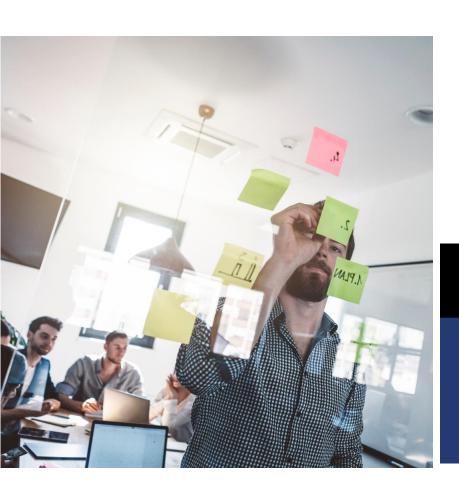
At the end of this lecture, you will learn the following

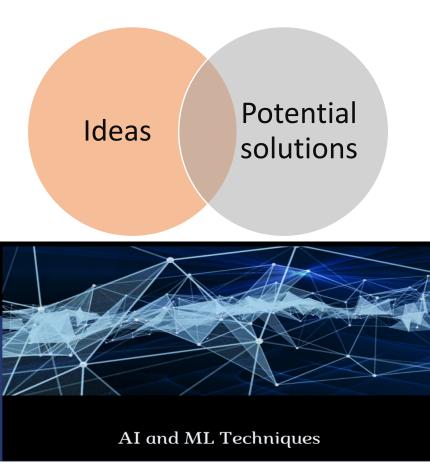
 How to understand stakeholders' needs and define problems that can be addressed using artificial intelligence and machine learning techniques





Brainstorm Solutions



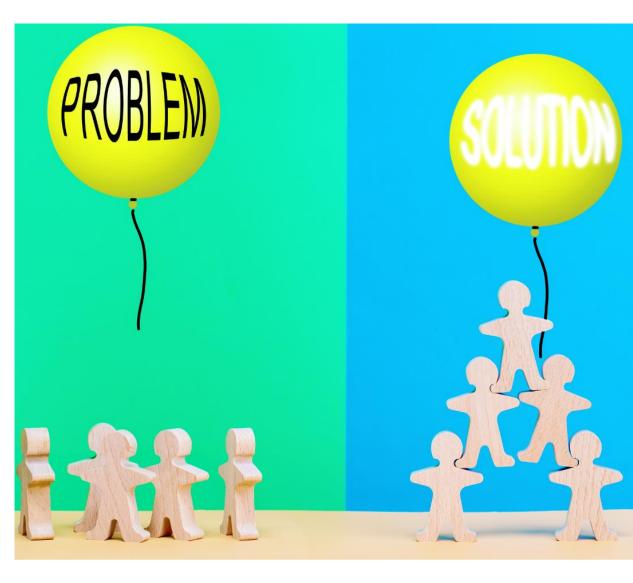






Brainstorm Solutions





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Prioritize Problems

Problem/ Opportunity	#1	#2	#3
Impact	Low	High	High
Feasibility	High	High	Low
Alignment with Organizational Goals	Low	High	High
Overall Priority	Low	High	Medium



Enrichmentors

Define Success Metrics

Work with stakeholders



Define clear and measurable success metrics



Use to evaluate the effectiveness of AI solutions





Prototype and Validate

Proof of concept vs. prototype

Proof of concept (POC)

Theoretical demonstration of a product/process/concept.

Determine whether an idea can be turned into a reality.

Test whether the idea is viable and explore the idea's potential to be developed or built.

Verify that the idea will function as envisioned.

Identify potential technical and logistical issues that might interfere with success.

Address how the proposed product or service will support organizational goals, objectives or other business requirements as a secondary goal.

Not intended to explore market demand for the idea, nor is it intended to determine the best production process.

Prototype

Very early draft of a product/process/concept.

Meant to turn a POC idea into a slimmed-down version of the end product that can be tested and evaluated for usability, functionality and design.

Not expected to have all the features and functions of a market-ready product, nor is it expected to contain all the usability or aesthetics of a final product.

Gives stakeholders, project managers, executives and potential investors a draft of what the final product might be.

Allows makers to determine how best to develop the product when it moves into full production for a final, market-ready item.







Prototype and Validate

Develop

Iterate

Solicit Feedback



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Document Requirements

Stakeholder requirements

Business objectives

Technical specifications



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Document Requirements



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Communicate Effectively

Inform

Progress

Challenges

Decision points

Solicit

Their input

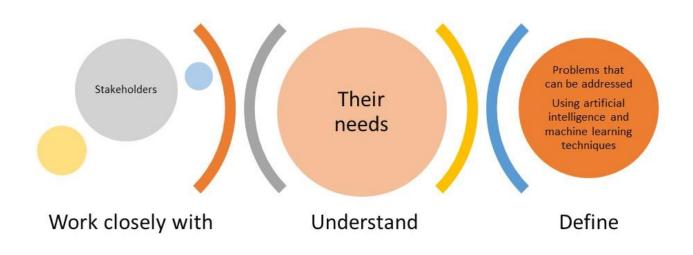
At key milestones



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How to understand stakeholders' needs and define problems

Problem Definition





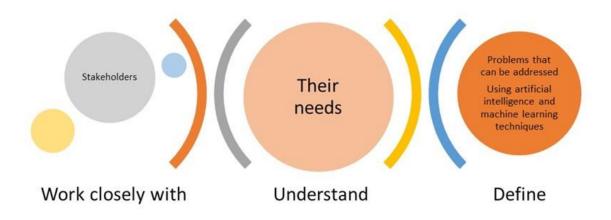


What is next?

An example of understanding stakeholders' needs and define problems

Problem Definition

Example: Improving Patient Diagnostics in Radiology









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